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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/608,196	06/30/2003	Masaoki Yoshida	Q76318	8796

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2100 PENNSYLVANIA AVE. NW  
WASHINGTON, DC 20037-3213

EXAMINER
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PATEL, DHIRUBHAI R

ART UNIT	PAPER NUMBER
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2831

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	02/27/2007	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

**Office Action Summary**

Application No.

10/608,196

Applicant(s)

YOSHIDA ET AL.

Examiner

DHIRU R. PATEL

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 12/29/06 USF
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☐ Claim(s) \_\_\_\_\_ is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_.

### **DETAILED ACTION**

1. The indicated allowability of claims 4, 10,12-13 are withdrawn in view of the newly discovered reference(s) to 6,290,509 and 6,390,830. Rejections based on the newly cited reference(s) follow.

### **Drawings**

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, a wiring member, which holds both of the first electric wires and the second electric wires sleeve recited in claims 1 and 4 and a plurality of grooves recited in claim 4 must be shown or the feature (s) canceled from the claim (s). No new matter should be entered. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the

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page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

### **Claim Objections**

3. Claims 1-20 are objected to because of the following informalities:

In claim 1 lines 7-8, "a wiring member, which holds both of the first electric wires and the second electric wires " is confusing and unclear in light of the specification because this feature is not shown on the drawings.

In claim 4 lines 7-8, "a wiring member, which holds both of the first electric wires and the second electric wires " is confusing and unclear in light of the specification because this feature is not shown on the drawings.

### ***Specification***

4. The disclosure is objected to because of the following informalities:

Added claims 17-20 are not adequately supported by the original specification.

Appropriate correction is required.

### **Claim Rejections - 35 USC § 102**

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action: A person shall be entitled to a patent unless -

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1-2, 5 and 7- 20 as best understood, are rejected under 35 U.S.C. § 102(b) as being anticipated by Hattori et al (6,290,509).

Hattori et al disclose :

Regarding claim 1, a circuitry assembly, comprising:

a plurality of first electric wires 20a - 020g, forming a first wire group (see fig 6, and entire column 7 and column 8 lines 15-30); a plurality of second electric wires 22a -22o, intersecting the first electric wires (see fig 6 and entire column 7), while forming a second wire group (see fig 6); a first insulative sheet 21 , disposed between the first wire group and the second wire group (see fig 7 and entire columns 5 and 7); and a wiring member 30, which holds both of the first electric wires and the second electric wires, wherein said wiring member holds the first wire group in a first direction and the second wire group in a second direction which intersects the first direction such that the first wire group intersects the second wire group (see figs 9A-9B).

Regarding claim 2, wherein the first insulative sheet is formed with at least one opening located corresponding to at least one intersecting point 27 at which one of the first electric wires and one of the second electric wires are eclectically connected (see fig 6 and column 7 lines 45-67).

Regarding claim 5, the first insulative sheet is provided as a flexible film (see entire columns 5 and 7).

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Regarding claim 7, wherein at least one of the first electric wires and the second electric wires is plated with tin (inherent properties of wires and entire columns 1 and 8).

Regarding claim 8, wherein the wiring member is formed with a plurality of grooves 30a-30b, each partly holding one of the first electric wires or one of the second electric wires ( grooves for inserting the wires, see fig 9B and column 8 lines 15-30).

Regarding claims 9-10, 12-19, considering the drawing objections and the claim objections, claims 9-10, 12- 19 are included in this rejection as best understood.

Regarding claim 11, see fig 6.

Regarding claim 20, see fig 8.

### **Claim Rejections - 35 USC § 103**

The following is a quotation of 35 U.S.C. 103 (a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

6. Claim 6 as best understood, is rejected under 35 U.S.C. § 103 (a) as being unpatentable over Hattori et al (6,290,509).

Hattori et al disclose:

Regarding claim 6, Hattori et al disclose all the features of the claimed invention as shown above, but fails to disclose the first insulative sheet is comprised of either polyethylene terephthalate or polyethylene naphthalate. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the assembly of Hattori et al with the first insulative sheet is comprised of either polyethylene terephthalate or polyethylene naphthalate, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. In re Leshin, 125 USPQ 416.

7. Claims 3-4 as best understood, are rejected under 35 U.S.C. § 103 (a) as being unpatentable over Hattori et al (6,290,509) in view of Onizuka (6,390,830).

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Hattori et al disclose:

Regarding claim 3, Hattori et al disclose all the features of the claimed invention as shown above, including several flat conductors arranged on an insulating sheet (see figs 7-8 and entire column 7), but fails to disclose further comprising a second insulative sheet, disposed between the wiring member and the second wire group. Onizuka teaches the use of an insulative sheet 15 with a plurality of grooves which respectively receive the electric wires 17A-17E and 16A-16D (see fig 1 and entire column 3). It is well known in the electrical art to use an insulative sheet with a plurality of grooves as evidenced by Onizuka and it has been held that mere duplication of the essential working parts of a device involves only routine skill in the art. *St. Regis Paper Co. v. Bemis Co.*, 193 USPQ 8.

Regarding claim 4, a circuitry assembly, comprising:  
a plurality of first electric wires 20a - 20g, forming a first wire group (see fig 6, and entire column 7 and column 8 lines 15-30); a plurality of second electric wires 22a - 22o, intersecting the first electric wires (see fig 6 and entire column 7), while forming a second wire group (see fig 6); a first insulative sheet 21, disposed between the first wire group and the second wire group (see fig 7 and entire columns 5 and 7); and a wiring member 30, which holds both of the first electric wires and the second electric wires, but fails to disclose a second insulative sheet with a plurality of grooves which respectively receive the second electric wires. Onizuka teaches the use of an insulative sheet 15 with a plurality of grooves which respectively receive the electric wires 17A-17E and 16A-16D (see fig 1 and entire column 3). It is well known in the electrical art to use an



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insulative sheet with a plurality of grooves as evidence by Onizuka and it has been held that mere duplication of the essential working parts of a device involves only routine skill in the art. *St. Regis Paper Co. v. Bemis Co.*, 193 USPQ 8.

### **Contact information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DHIRU R. PATEL whose telephone number is 571-272-1983. The examiner can normally be reached on M-TH, 6:30 TO 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard can be reached on 571-272-1984. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service

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Representative or access to the automated information system, call 800-786-

9199 (IN USA OR CANADA) or 571-272-1000.

  
DHIRU R PATEL  
Primary Examiner  
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2/20107

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